as of 5-6-64 this well	was Converted	Ctoall	der Injection Well.
FILE NOTATIONS		100	
Entered in NID File Entered On 5 R Sheet Location Map Pinned Card indiexed IWR for State or Fee Land CCMPLETION DATA:	Checked by Chief Copy NID to Field Office Approval Letter Disapproval Letter		
Dute Well Completed Q-1-61  OV WW	Location Inspected  Bond released  State of Fee Land		
LOGS FI  Dri lar's Log. 3-24-61  Electric Logs (No. )	SR GR-N	Micro	

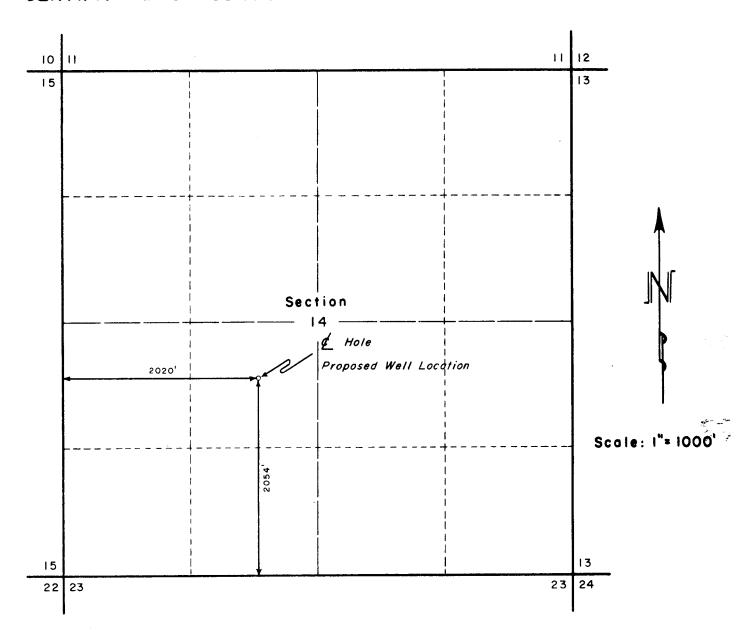
#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency			
	Indov	Rock	
Allettee	leva jo		
Lease No.	14-20-	603 <b>-3</b> 70	

SUNDRY	NOTICES .	AND REP	ORTS O	WELLS	
NOTICE OF INTENTION TO DOUG		SUBSEQUENT	DEPORT OF WATER	CULTOFF	
NOTICE OF INTENTION TO DRILL NOTICE OF INTENTION TO CHANGE P				R SHUT-OFF TING OR ACIDIZING	1 1
NOTICE OF INTENTION TO TEST WATE		i li		ING CASING	i 1
NOTICE OF INTENTION TO REDRILL O		1 1		LLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR	ACIDIZE	SUBSEQUENT	REPORT OF ABAND	ONMENT	
NOTICE OF INTENTION TO PULL OR A	LTER CASING	SUPPLEMENT	ARY WELL HISTORY	<b></b>	
NOTICE OF INTENTION TO ABANDON	WELL				
(INDICAT	E ABOVE BY CHECK MAI	RK NATURE OF REPOR	r, notice, or other	R DATA)	
		722222222	Decer	ober 13	, 1960
Well No. 23-14 is loc		• •		• ,	sec14
NE SW Sec. 14 (% Sec. and Sec. No.)	(Twp.)	(Range)	SLEAM (Meridian)		
White Mesa		San Juan		Utah	,
(Field)		ity or Subdivision)		(State or Territory)	
State names of and expected depths to		AILS OF WOR		sings; indicate muddir	ng jobs, cement
Propose to drill (6660'.  Will set approxim				,	
irculated to surface.	•		-		
Will set 4-1/2" c 5-1/2" casing will be	~ ~	•	ial product	tion encounte	red.
I understand that this plan of work	: must receive approval	in writing by the Ge	ological Survey befo	ore operations may be	commenced.
Company The Superi	or Oil Compan	<b>y</b>			
Address P. Q. Draw	er 'G'			ORIGINAL SIGNED B	ıy
Cortez, Co	lorado	<u> </u>	Ву		
			Title	D.D.Kingman Engineer	

### CERTIFICATE OF SURVEY



### WELL LOCATION: THE SUPERIOR OIL CO. No. 23-14 (NAVAJO "E")

Located 2020 feet East of the West line and 2054 feet North of the South line of Section 14

Township 41 South Range 24 East Salt Lake Meridian

San Juan County, Utah

Existing ground elevation determined at 4697 feet based on U.S.G.S. datum.

I hereby certify the above plat represents a survey unique, under my supervision and is accurate to the best of my knowledge and belief.

E. MER M. CLARK
Registered Land Surveyor
State of Utah (No. 2307)

Revised

E.M. CLARK & ASSOCIATES
Durango, Colorado
July 27, 1960

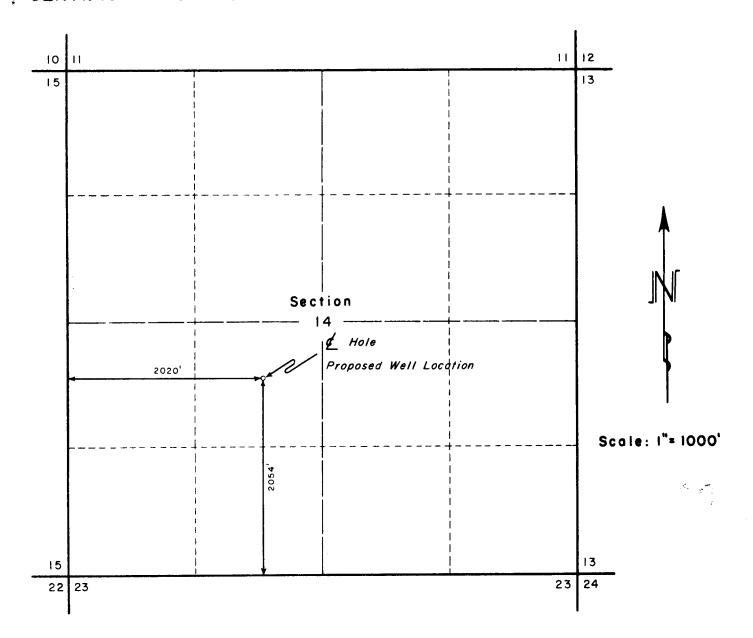
#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency	
Window	w Rock
Allettee Navajo	Q
Lease No. 14-20	-603-370

	l 🕶 il		1
NOTICE OF INTENTION TO DRILL	1 1		TER SHUT-OFF
NOTICE OF INTENTION TO CHANGE P		•	OTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WAT	į li	UBSEQUENT REPORT OF ALT	ì
NOTICE OF INTENTION TO REDRILL ON	1 1	UBSEQUENT REPORT OF ABA	PRILLING OR REPAIR
NOTICE OF INTENTION TO PULL OR		UPPLEMENTARY WELL HISTO	1
NÓTICE OF INTENTION TO ABANDON			
(INDICAT	TE ABOVE BY CHECK MARK NATURE	OF REPORT, NOTICE, OR OT	HER DATA)
		Dec	ember 13 , 1960
Navajo 'E'	4		
Vell No. 23-14 is loc	cated $-2054$ ft. from $\frac{205}{3}$	line and2020ft.	from $\{X\}$ line of sec14
	•	,	` ,
NE SW Sec. 14 (% Sec. and Sec. No.)	41S 24F	SLB&	<u>M</u> an)
White Mesa (Field)	(County or Subdi	vision)	(State or Territory)
	<i>a</i> 1 1 1.	4607 ft	dod anound
	t floor above sea level is	409/_ft. ungra	aea grouna
ine elevation of the derrick	i noor above boa lever is	_	
ne elevation of the derrick	DETAILS O		
	DETAILS O	F WORK	casings; indicate mudding jobs, ceme
State names of and expected depths to Propose to drill	DETAILS O	F WORK  hts, and lengths of proposed portant proposed work)	
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Propose to drill 660'.  Will set approximirculated to surface.  Will set 4-1/2" casing will be	DETAILS Of so objective sands; show sizes, weighing points, and all other impoints and all other impoints and sizes.  Well to test Parado on the sizes of the siz	hts, and lengths of proposed portant proposed work)  ox Formation at  surface pipe  commercial productacks.	depth of approximately in 11" hole with cemes
Propose to drill 660'.  Will set approximing a property of the set	DETAILS Of cobjective sands; show sizes, weighing points, and all other impoints, and all other impoints and compared to test Parado at the pa	hts, and lengths of proposed portant proposed work)  ox Formation at  surface pipe  commercial productacks.	depth of approximately in 11" hole with ceme
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Propose to drill 660'.  Will set approximized to surface.  Will set 4-1/2" of -1/2" casing will be  I understand that this plan of work Company The Superi	DETAILS Of consistency of the points, and all other impoints, and all other impoints, and all other impoints, and all other impoints, and all other impoints of the points	hts, and lengths of proposed portant proposed work)  ox Formation at  surface pipe  commercial productacks.	depth of approximatel in 11" hole with ceme
Propose to drill 660'.  Will set approximing a proving the first set 4-1/2" of 1/2" casing will be sunderstand that this plan of work the first set 4-1/2". Company The Supering Address P. O. Draw	DETAILS Of so objective sands; show sizes, weighting points, and all other impoints, and all other impoints and al	hts, and lengths of proposed portant proposed work)  ox Formation at  surface pipe  commercial productacks.	depth of approximatel in 11" hole with ceme

### : CERTIFICATE OF SURVEY



### WELL LOCATION: THE SUPERIOR OIL CO. No. 23-14 (NAVAJO "E")

Located 2020 feet East of the West line and 2054 feet North of the South line of Section 14 Range 24 East Salt Lake Meridian Township 41 South

San Juan County, Utah

Existing ground elevation determined at 4697 feet based on U.S.G.S. datum.

i hereby certify the above plat represents a survey under my supervision and is accurate to the

Registered Land Surveyor State of Utah (No. 2307) Revised

E.M. CLARK & ASSOCIATES Durango, Colorado

July 27, 1960

#### December 16, 1960

The Superior Oil Company P. O. Drawer 'O' Cortez, Colorado

Attention: D. D. Kingman, Eng.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo 'E' 23-14, which is to be located 2054 feet from the south line and 2020 feet from the west line of Section 14, Township 41 South, Range 24 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT, EXECUTIVE SECRETARY

CBFIRME

ce: P. T. McGrath, Dist. Hig.

U. S. Geological Survey

H. L. Coonts, OGCC, Moab

Budget Bureau No. 42–R355.4. Approval expires 12–31–60.

Santa Fe

U. S. LAND OFFICE 14-20-603-370 SERIAL NUMBER WAVE JO

LEASE OR PERMIT TO PROSPECT

f Ar

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

**GEOLOGICAL SURVEY** 

### LOG OF OIL OR GAS WELL

انان بولىدى ر	n 1		•	-uy		Address	I.O.DIEWE	r G, Cort	ez, Col	orado
00003	ou fire et	Superior C Navajo 'E	•			Field	P.O.Drawe White Mess	State	Utah	1
wall N.	23-14	Soc 14 7	, 415 <sub>R</sub>	24E M	ridian	SLBM		lounty Sa		
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Th	e informa	tion given he	erewith is	a compl ailable re	ete <b>a</b> nd ecords.	d correct	record of the	well and al	l work de	one thereon
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Adapter	'sMateria	I						
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$\operatorname{Th} \epsilon$	e production	n for the first	24 hours wa	s14	b b	arrels o		99.6.% was cil%
emulsion	n; <b>0.4</b> % w	ater; and	% sediment	<b>.</b>	!		Gravity, °Bé	42.0°
If o	ras well. cu.	ft. per 24 ho	urs		Galle	ons gasc	oline per 1.000 c	u. ft. of gas
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# X

NE SW Sec. 14 (14 Sec. and Sec. No.)

(Field)

White Mesa

#### (SUBMIT IN TRIPLICATE)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Indian Ag	oncy
Vin	dow Rock
. *	Mevajo
T N-	14-20-603-370

(State or Territory)

### SLINDRY NOTICES AND REPORTS ON WELLS

Navajo 'E'	March 23	, 19 <b>.61</b> .
(INDICATE ABOVE BY CHECK I	MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)	
NOTICE OF INTENTION TO ABANDON WELL.		1
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<u>X</u> _
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.	<u></u> -
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.		. 1
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		1
NOTICE OF INTENTION TO DRILL	· · · · · · · · · · · · · · · · · · ·	ľ

The elevation **Expression above** sea level is 4705 ft. K.B.

San Juan

#### DETAILS OF WORK

(County or Subdivision)

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: December 22, 1960

Completed: February 1, 1961

T.D: 5713' PBTD: 56701

Casing: 9-5/8" 25.4# & 32.30# Set at 79" w/60 sacks.

23# Set at 1490' w/600 sacks. 9.50# Set at 5713' w/250 sacks.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. Company The Superior Oil Company P. O. Drawer 'G' ORIGINAL SIGNED BY Cortes, Colorado Title\_\_\_ Engineer WMR/njh

#### ELECTRIC LOS TOPS

Hernose 4531'
Songy 5375'
Gothic Shale 5533'
Becert Greek 5545' (+845)
Chimney Rock 5690'

#### PERFORATIONS

5554'-5566' w/3 Torpedo Jets/Yt.

#### MILL STEM THETS Home

#### THATHUE

1-31-61 Acid Job #1 (Perfs. 5554'-66')
200 gale. BDA, followed by 3,000 gale. Regular Acid. Max.
Press. 4200#/2000#.

#### TUBLING:

2" 4.70f J-35, R-2, 8Rd Spang w/1" x 39' Gas Anchor 5599'
Sesting Nipple 5357'
Baker Compensator 5522'

### INITIAL PRODUCTION

3-1-61 Well pumped 1A bbls. fluid in 24 hrs. Gty. 42.0°, Press. 180/60 cut 0.4% P/15-44"

### TED STATES

		Form a Budget	pprov Burea	ea. au N	o. 42-R	
5.	LEASE	DESIGN	ATION	AND	SERIAL	NO.

DEPARTM⊾T OF THE INTER	14-20-603-370
SUNDRY NOTICES AND REPORTS  (Do not use this form for proposals to drill or to deepen or pluguse "APPLICATION FOR PERMIT—" for such	
OIL GAS OTHER	7. UNIT AGREEMENT NAME
Phillips Fetroleum Company	8. FARM OR LEASE NAME Ratherford Unit
P.O. Box 1150, Cortez, Colorado	9. WELL NO. 5-14-23
4. LOCATION OF WELL (Report location clearly and in accordance with as See also space 17 below.) At surface NE, SW Sec. 14 2054 FIL; 2020 FWL Sec.	Greeten Arioth Mald
14. PERMIT NO. 15. ELEVATIONS (Show whether 4705 KB	DF, RT, GR, etc.)  12. COUNTY OR PARISH 13. STATE  San Juan  Ulah
16. Check Appropriate Box To Indicate NOTICE OF INTENTION TO:	Nature of Notice, Report, or Other Data SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON*  CHANGE PLANS	WATER SHUT-OFF  FRACTURE TREATMENT SHOOTING OR ACIDIZING  (Other)

Cary Alice

(Other) test for water Injection, Convert or pred Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* Pull rods and tubing, jet perforate Desert Creek zone from 5613-24' with 4 holes/ft.

Acidize Desert Creek perforations 5554-66 and 5618-24 with 2000 gallens regular Acid, 200 gallons Sol-Block and 2000 gallons regular acid. Test for Water Injection. If satisfactory injection run Marlex lined tubing and convert to water injection well. If test unsatisfactory return well to producting status. T.D. 5670

2/6/64 Present Production: 4 BO, 40 VCFG, 0 Str 24 hrs. pumping.

C.M. Bales		- 11월 12일 전 10일 12일 12일 12일 12일 12일 12일 12일 12일 12일 12
18. I hereby certify that the foregoing is true and correct SIGNED Frank R. Davis TIT	T D	DATE
SIGNED 23 111	Area Supt.	2/26/64
(This space for Federal or State office use)	***	
APPROVED BY TIN	TLE	DATR-

Form 9-331 (May 1963)

TEST WATER SHUT-OFF

FRACTURE TREAT

REPAIR WELL

SHOOT OR ACIDIZE

# TED STATES

LopyHX-C

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(CATE\*

Form approved.

		Buaget	Bures	u No	. 42-R	142
5.	LEASE	DESIGN	ATION	AND	SERIAL	NO.
	_		4	شيد		

REPAIRING WELL

ALTERING CASING

or

ABANDONMENT\*

	EOLOGICAL SURVEY	14-20-603-370	)
SUNDRY NOTION (Do not use this form for proposa Use "APPLICA"	CES AND REPORTS ON WELLS ls to drill or to deepen or plug back to a different reservoir. FION FOR PERMIT—" for such proposals.)	6. IF INDIAN ALLOTTER OR T	HIBE NAME
OIL GAS WELL OTHER		7. UNIT AGREEMENT NAME	1 2 2
2. NAME OF OPERATOR	1 8	8. FARM OR LEASE NAME.	11.
Phillips Petroleu	m Company XI CN ON 100	Rather ford Had	i ė
3. ADDRESS OF OPERATOR	- Price	9. WELL RO.	7
P. O. Drawer 1150, C	Cortez . Calorado	E14-23	1.
	early and in accordance with any State requirements.*	10. FIEED AND POOL, OR WIM	
NE, SW Sec. 14	2054 F3L; 2020' FWL Sec. 14	11. SEC., T., R., M., OR BLK. AN SURVEY OR AREA	NB
		14-415-24E SLEN	<u>.</u> "
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13.	STATE
	4705 KB	San Juan	Utah
16. Check Ap	propriate Box To Indicate Nature of Notice, Report,	or Other Data	
NOTICE OF INTENT	ON TO:	UBSEQUENT REPORT OF:	·

rerf Other) Desert Creek, acidize & test (No Connection or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertiproposed work. If nent to this work.) \*

Perforated Desert Creek 5618-24' w/4 shots per foot. Ran 2" tubing and packer. Acidized perforations 5554-66 and 5618-24' with 2000 gallons regular acid, 200 gallons Block, and 2000 gallons regular acid. "Tested well for dater Injection receptivity. Pulled tubing with packer, packer set at 1025', sheared packer. Fished all parts except one l"x4" slip and 5 approximately 1"x1/2" long slip springs left in hole. Ran tubing and rods, hung well on, started pumping from Desert Greek perforations 5554-66' and 5618-24' in Greater Aneth-Paradox Formation.

4 BO, 40 MCF Gas, O Water 24 hrs. Production - Previous:

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

Present Production: 9 BOPD, 10 BWPD, O HWPD (Will convert to Water Injection in approximately one month - will advise of conversion).

\* Pumped water into formation 3 BPM at 0# to 2700# in 15 minutes 2 BPM at 2425# to 2700# in 12 min. pressure increasing 1 BPM at 2500# - decreased to 2200# in 10 minutes 1/2 BPM at 2000# - decreased to 1625# in 10 minutes Shut Down Pressure 1450#

18. I hereby certify that the foregoing is true and correct			
SIGNED L. MILLER	TITLE C. M. Boles, Area Supt.	DATE	3-20-64
(This space for Federal or State office use)			
APPROVED BY	TITLE	DATE	



### P. O. Drawer 1150 Cortez, Colorado

May 11, 1964

Utah Oil & Gas Conservation Commission 310 Newhouse Building Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

Old Well	New Well No.	Date Converted	Inje <b>ctio</b> n Rate	Injection Pressure
E14-23	E14W23	5 <del>-</del> 6-64.	158 BWPD	2600#1
4-23	4W23	5-9-64	230 BWPD	2 <b>600#</b>

Details of the above conversions will be furnished on USGS Form No. 9-331b in the near future.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

C. M. Boles

District Superintendent

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			up <sup>t</sup>
Form 9-331 (May 1963)	TED STATES DEPARTMENT OF THE I	(Other int and in	Term approved. Budget Bureau No. 42-R1424.  5. LEASE DESIGNATION AND SERIAL NO.
<i>y</i> 1 1 1	GEOLOGICAL SUR	VEY	14-20-603-370
(Do not use	JNDRY NOTICES AND REPO this form for proposals to drill or to deepen Use "APPLICATION FOR PERMIT"	ORTS ON WELLS or plug back to a different reservoir. for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL GAS WELL WEI	Y		7. UNIT AGREEMENT NAME
	Petroleum Company	erios)	8. FARM OR LEASE NAME
3. ADDRESS OF OPERA			
4. LOCATION OF WELL	wer 1150, Cortes, Colorado L (Report location clearly and in accordance	with any State requirements.*	10. FIELD AND POOL, OR WILDCAT
See also space 17 At surface	below.) NE, SW Sec. 14 2054 FSL; 2		11. SEC., T., S., M., OF BLK. AND SURVEY OR ARMA
			14-415-24E SLBM
14. PERMIT NO.	15. ELEVATIONS (Show	whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	4705 KB		San Juan Utah
TEST WATER SHO FRACTURE TREAT SHOOT OR ACIDIZ REPAIR WELL (Other)	NOTICE OF INTENTION TO:  UT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF  FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) Completion or Report re	REPAIRING WELL ALTERING CASING ABANDONMENT  esults of multiple completion on wen ecompletion Report and Log form.  dates including estimated date of starting an
proposed work nent to this wo	. If well is directionally drilled, give subst	urface locations and measured and true v	vertical depths for all markers and zones perti
	•		
Hooked well up	for Water Injection, start from oil well to water in	ted injecting water 5-6-	-64. Changed well
	otion from Greater Aneth - 9 MCFGPD, O water.	Paradox Formation, Dese	rt Creek
Present Injecti	lon Rate: Injected 158 B	PD at 2600#.	

18. I hereby certify that the foregoing is true and correct		
SIGNED ME PROPERTY	TITLE Area Superintendent	DATE6-19-64
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

Light of Mills

Form	9-331
(May	1963)

# TED STATES SUBMIT IN T. (Other instruct. verse side)

ATE\*

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

IAN, ALLOTTEE OR TRIBE NAME
OR LEASE NAME  NO.  S'AND POOL, OR WILDCAT  T. E. R., OF BLK. AND RVBT OR AREA
TY OR PARISH 13. STATE
C OF: REPAIRING WELL
ALTERING CASING ABANDONMENT*

Pulled rode and tubing. Ran 2" tubing with Marlex Liner and Baker Tension Packer. Hooked well up for Water Injection, started injecting water 5-6-64. Changed well classification from oil well to water injection well and mumber from F14-23 to E14-23 effective 5-6-64.

Previous Production from Greater Aneth - Paradox Formation, Desert Greak Zone: 4 BOPD, 9 NCFGPD, 0 water.

Present Injection Rate: Injected 158 BaPD at 2600%.

8. I hereby certify that the foregoing is true and correct		
SIGNED CINCIPOLE	TITLE Area Superintendent	DATE
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

Bayer of State

Form	9-331
(May	1963)

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### TED STATES DEPARTMENT OF THE INTERIOR (Other instructio. on reverse side) GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

P. O. Drawer 1150, Cortex, Colorado 61321  LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*  See also space 17 below.)  At surface  2054. FSL, 2020 FWL Section 14  11. SEC., T., E., M., OR RLE. AND  SURVEY OR AREA.  10. CONNEY OF PROPERTY.		<u> </u>	<u>·                                      </u>	6. IF INDIAN, ALLOTTER OR TRIBE NAME
OIL GARLEY OF DETAINED POTTOLOGY POLICIES OO.  ADDRAGS OF OFREATOR  P. O. DETAINED 1150, Cortes, Calerado \$1321  Locatros of weal, (Report location clearly and in accordance with any State requirements.*  AT STATES OF THE SOCIETY Theology of the Control of Notice, Page of the Control of Wallet AND POLY, OR WHILE AND STATES OF THE STATES OF THE SOCIETY OF THE STATES OF THE STATES OF THE SOCIETY OF THE STATES OF THE STAT	(Do not use this form fo	or proposals to drill or to deepen or	plug back to a different reservoir.	Sevejo Stibel
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PART OF OFFRENCH  ADDRESS OF CPREATOR  P. O. PERSON 1150, Cortes, Calerade 2321  DOCATION OF WELL (Report location clearly and in accordance with any State requirements."  At surface  2034. PELL 2020 FEL Section 14  E. PERNIT NO.  15. REVAILONS (Show whether of, Nr. co. etc.)  A795 ER  C. Check Appropriate Box To Indicate Nature of Notice, Report, or Office Date  NOTICE OF INTERNION 70:  TEST WATER SHUT-OFF  PULL OR ALTER CASING  MULTIFLE COMPLETE  CHANGE PLANS  (Check Complete Statements)  CHANGE PLANS  (Check Complete Statements)  PULL OR ALTER CASING  NOTICE OF INTERNION 70:  TEST WATER SHUT-OFF  PRACTICE TRANS  NOTICE OF INTERNION TO:  THAT WILL  (Check)  (Check)  CHANGE PLANS  (Check)  (Check)  (Check)  CHANGE PLANS  (Check)  (Check)  CHANGE PLANS  (Check)  (Check)  CHANGE PLANS  (Check)  CHANGE PLANS  (Check)  CHONGE PLANS  (Check)  CHANGE PLANS  (Check)  (Check)  CHANGE PLANS		ware lister Infact	<b>San</b>	MA-1-4105
PASSAGE OF OFFICE OF THE PASSAGE OF		THE		S. FARM OR LEASE NAME
P. O. Dresser 1190, Cortes, Solerade 2322  Octation of well. (Report location clearly and in accordance with any State requirements.*  10. Finds Any Pools, or Willout Trades 2004. PRIL Booties 14  E. SW See. 14  11. SEC. T. E. M. OR BLE. APP 11. Section 14. Library or Angel 15. Section 14. Library or Angel 16. Section 14. Library or Angel 16. Section 14. Library or Angel 17. Section 15. Section 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Bota 2008. AND ONLY OF ANGEL 18. Section 17. Section 18. Sectio		Petroleum Co.		Rether ford Unit
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At price 2024 FSL 2029 FSL Beeties 14  5. 5% Fee. 14  4. PERMIT NO.  15. SLEVATIONS (Show whether DF, NT, OR, etc.)  16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Bota  NOTICE OF INTERVIENT TO:  THEST WATER SHUT-OFF PRACTURE TREATMENT SHOOT OR ACTIBITE SHOOT OR ACTIBITE CHANGE PLANS  (Other)  DASSCRIBE PROPOSED OR COMPLETE CHANGE PLANS  (Other)  ANANOMY.  A	LOCATION OF WELL (Report lo	ocation clearly and in accordance wit	h any State requirements.*	10. FIBED AND POOL, OR WILDCAT
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4. PERMIT NO.  15. HEVATIONS (Show whether DF, N, OR, etc.)  15. COUNTY OF PARISH 15. STATE ATOS IS  16. CHeck Appropriate Box To Indicate Nature of Notice, Report, or Officer Data  NOTICE OF INTENTION TO:  SUBSEQUENT REPORT OF:  WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIEN REPAIR WILL (Other)  T. DESCRIBE DUNOSERO OR COMPLETE OPERATIONS (Clearly state all pertinent details, and give pertinent dates included date of starting proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pent to this work.)*  Present injection rate: 6 BMFD at 22605  TITLE  Dist. Sapt.  DATE  TITLE  DATE  DATE  DATE  TITLE  DATE	20% PSL: 2020	PML Section 14		SURVEY OR AREA
Check Appropriate Box To Indicate Nature of Notice, Report, or Office Data  NOTICE OF INTERTION TO:  TERT WATER RECTORY  FRACTICE TREAT  ROOT OR ACTOLIE  REPAIR WELL  (Other)  CHANGE PLANS  CHANGE PLANS  (Other)  (Other)				14-418-ME 6.L.B.M.
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INFERTED TO:  TEST WATER SHUT-OFF PRACTURE TREAT SHOT OR ACTURE THEATMENT AND ALTERING CASING (Other)  CHANGE FLANS (Other)  ALTERIATE WELL  CHANGE FLANS (Other)  ALTERIATE WELL  CHANGE FLANS (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  CHANGE FLANS (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  CHANGE FLANS (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  CHANGE FLANS (Other)  ALTERIATE CASING  ALTERIATE CASING  ALTERIATE CASING  ALTERIATE CASING  ALTERIATE SHUT-OFF  REPAIRING WELL  (Other)  CHANGE FLANS (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  (Other)  ALTERIATE SHUT-OFF  REPAIRING WELL  (Other)  ALTERIATE CASING  ALTERI	4. PERMIT NO.	15. ELEVATIONS (Show when	ther DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF FRACTURE TREAT SHOT OR ACTIVITY REPAIR WELL (Other)  T. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent depths for all markers and zones p nent to this work.)*  Activities of March 19800 gallone 25% acid and return to injection.  Fresent injection rate: 6 MIPD at 22105  Thereby certify that the foregoing is the and correct  SIGNED  NEW HOLL OF THE PROPOSED OF COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent depths for all markers and zones p nent to this work.)*  Tresent injection rate: 6 MIPD at 22105  Thereby certify that the foregoing is the and correct  SIGNED  NEW HOLL OF THE PROPOSED OF THE PROPO		4705 KB		Salt Just Steh
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PULL OR ALTER CASING FRACTURE TREAT SHORT OR ACIDIES REPAIR WELL CHANGE PLANS (Other)  7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and some part of this work.)  Present injection rate: 6 MePD at 2260  Present injection rate: 6 MePD at 2260  TITLE  Blat. Sept.  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE		• •		
PRACTURE TREAT SHOOT OR ACIDIER SHOOT OR ACIDIER ARANDON* REFAIR VELL CHANGE PLANS	NOTICE (	OF INTENTION TO:	Baus	
SHOOT OR ACIDIER  REPAIR WELL  (Other)  CHANGE PLANS  (Other)  CHANGE PLANS  (Other)  DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent Report and Log form.)  DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent Report and Log form.)  Present injection rate: 6 PMPD at 22609  Fresent injection or Recompletion on Well Completion on Well Completion or Recompletion rate injection or Recompletion rate injectio	TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	
REPAIR WELL  (Other)	FRACTURE TREAT	MULTIPLE COMPLETE		
(Other)  (Ot	SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
(Other)  Other)  Other	REPAIR WELL	CHANGE PLANS	(Other)	lts of multiple completion on Well
Present injection rate: 6 PMFD at 2260)  8. I hereby certify that the foregoing is type and correct  SIGNED  (This space for Federal or State office use)  APPROVED BY  TITLE  DATE  DATE			Completion or Reco	mpletion Report and Log form.)
SIGNED TITLE Dist. Sapt.  (This space for Federal or State office use)  APPROVED BY TITLE DATE	Present injection	a rate: 6 NWPD at 226	io#	
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APPROVED BY TITLE DATE	SIGNED	TITLE		DATE
APPROVED BY TITLE DATE	(This space for Federal or	State office use)		
	` <del>-</del>		_	TO A PINTA
CONTRUCTIONS OF APPROVAL IN ANI:	CONDITIONS OF APPROV	AL IF ANY:		DATE

Form 9-331 (May 1963)	TED STATES	SUBMIT IN TI CATE.	Form approved. Budget Bureau No. 42–R142
DEP	PARTMENT OF THE INTER	OR verse side)	5. LEASE DISIGNATION AND SERIAL NO.
CLIVIDDA	NOTICES AND REPORTS	ON WELLS	3. Aprildian, Allocter of Tribe Nami
(Do not use this form fo Use "A	proposals to drill or to deepen or plug APPLICATION FOR PERMIT—" for such	back to a different reservoir.	
OIL GAS GAS O O	THER Water Injec		/. UNITY GREEN NT NAME
2. NAME OF OPERATOR	Phillips Petroleum Co.		Redorford that
ADDRESS OF OPERATOR	Drawer 1150, Cortes,	Colorado 81321	
. LOCATION OF WELL (Report lo See also space 17 below.) At surface	cation clearly and in accordance with an	State requirements.*	10. FRED AND POOL, OR WILDCAT
2054' PSL; 20 WE, 5% See	20' FNL Section 14		11. SEC., T., R. M., OB BLE. AND SURVEY OF AREA.
			Live 15-345 B. L.B.A.
4. PERMIT NO.	15. ELEVATION Choraghether D	F, RT, GR, etc.)	COUNTY OF PARISH
8. Che	eck Appropriate Box To Indicate I	Nature of Notice, Report, or Oth	er Data
NOTICE (	OF INTENTION TO:	SUBSEQUEN	T REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL (Other)	CHANGE PLANS	(Other) (Nore: Report results of	multiple completion on Well on Report and Log form.)
rt Creek with 5000 ween stages. Resum	5626 to 5670'. Pulled b gallone 28% acid in 2 c ed injection.	왕 : (1) 12 <b>: (1)</b> 13 : (1)	Light ealth block
		9. THE FIRST PROPERTY.	
ICUS INJECTION RAT	E: 6 BWPD at 2260f.	2.	"양 중 주
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BRIT INJECTION RATE	: 560 BWPD at 24005.	9° 5	and the decree of the first terms of the first term
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		and the second s	) 항공 변 - 항공 - 20 항공 <b>를 유</b>
		्रहुत है। इ.स.	#일 및 D - 취 () - 이 국 한 #1
		ि । • १	ેંગ્રેકિપૃતિ માને
3. I hereby certify that the for	egoing is true and correct		1-12-67
SIGNED . H. Boles	TITLE		DATE :
(This space for Federal or S	State office use)		
APPROVED BYCONDITIONS OF APPROVA	AL, IF ANY:		DATE

#### STATE OF UTAH DIVISION OF OIL, GAS, AND MINING **ROOM 4241 STATE OFFICE BUILDING** SALT LAKE CITY, UTAH 84114 (801) 533-5771 (RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY  ADDRESS P.O. BOX 2920		CAUSE NO	
CASPER, WYOMING ZIP INDIVIDUAL PARTNERSHIP X CORPORATION FOR ADMINISTRATIVE APPROVAL TO DISPOSE	E OR	ENHANCED RECOVERY INJ. WELL DISPOSAL WELL LP GAS STORAGE	8008
INJECT FLUID INTO THE <u>£14W23</u>	WELL	EXISTING WELL (RULE 1-4)	茵
SEC. $\frac{14}{600}$ TWP. $\frac{41S}{100}$ RANGE	24E_	<u>-</u>	
SAN JUAN COUNTY	r, UTAH		

#### **APPLICATION**

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP

Lease Name	Well No.	1	Field			County
Ratherford Unit	E14W23		Grea	ter	Aneth	San Juan
location of Enhanced Recove <b>ry</b> Injection or Disposal Well <u>E14W2</u>	3 Sec1	14		Tv	wp. 41S	
New Well To Be Drilled Yes □ No 🖸	Old Well To Be Conve Yes				Casing Test Yes	M No Date 5-83
Depth-Base Lowest Known Wingate Fresh Water Within ½ Mile 1550!	Does Injection Zone C Oil-Gas-Fresh Water V		Mile YES	Ø	NO 🗆	State What Oil & Gas
ocation of Desert Creek   njection Source(s) San Juan	Paradox I & II River		ic Name(s opth of So			reek (5567') Juan River (Surface)
Geologic Name of Desert Cre	eek I & II	Depth o	of Injection	<u>}</u>	to <u>5624</u>	
a. Top of the Perforated Interval:	b. Base of Fresh	Water:		c. In	tervening Thic	kness (a minus b)
s the intervening thickness sufficient to without additional data?		protecte YES	NO NO		See	Attachment #4
ithology of Intervening Zones	See Attachment	#1	•			
njection Rates and Pressures						
SD 1226-80	Maximum					B/D PSI
he Names and Addresses of Those to	Whom Notice of Application	on Should	be Sent.			
Navajo Tribe, Minerals	Dept., P.O. Box	< 146,	, Windo	)W	Rock, AZ	86515
Superior Oil, P.O. Box	4530, The Woodl	lands,	TX 7	773	80	
Texaco Inc., P.O. Box 2						
Southland Royalty, 1000	Fort Worth Clu	ub Tow	ver, Fo	ort	Worth, T	X 76102
we of Wyoming	•		PHTILI	PS	PETROLEU	IM COMPANY
	)	-				olicant
ounty of <u>Natrona</u> Before me, the undersigned						
nown to me to be the person wath <u>states</u> , that he is duly auth terein, and that said report is t	hose name is subscrib torized to make the c	sed to tl	he above	e ins	strument, wi	ho being by me duly sworn o
Suscribed and sworn to b	$\infty\infty\infty$	$\times \times \times$	ax of 🔊	عمع	19_	83
SEAL YDC	NALD L. HUDSON - N		<del>-11</del>	L)	lenaled a	2. Wedson
My commission expires	County of Salvania	State o	of X ng <b>Nota</b> i	ry P	ublic in and	for Natrona Co., Wyo
X x	ly Commission Expires N	Nov. Bal	886 X			

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
  - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule 1-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
  - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

#### CASING AND TUBING DATA

NAME OF STR	ING SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9 5/8	79	60	Surface	Returns
Intermediate	7	1490	600	Surface	Returns
Production	4 1/2	5713	250	4782	CALCULATED
Tubing	2	5525	Name Baker Ten	•-Type-Depth of sion PKR at 55	Tubing Packer 23,33
PB Total Depth 5670	Geologic Name - II Desert Cre	nj. Zone Dept	h - Top of Inj. In 5554		- Base of Inj. Interval 5624

#### SE BLACK INK ONLY

ORM DOGM-I Rule I-5 (b)	2	- 1 21 1		84 1-1117-		7./		<b>YPE OR US</b> 03- 370
Revised 198	DE	PARTMENT	OF NATUR	ys after drillin	ES AND	pierea)		LEASE NO.
.PI NO. <u>43</u> -	640 Acres N		Room 4241 S Salt Lake	IL, GAS, AND MII tate Office Buildi City, Utah 84114	ng			
			ounty <u>Sal</u> Ompany op	1 Juar <sub>sec.</sub> <u>1</u> erating <u>Phi</u>	<u>4</u> 11ips	<b>twr</b> . 41S Petroleu	. I	RGE. 24E mpany
		- ·	FFICE ADDRE	ss P.O. Bo	ox 292	0		·
*		<del></del>		asper		TE ZIP $WYC$		
	*  -  -		ARM NAME . RILLING STAI	TED 12.22				
				PRODUCTION			ETED _	2.1.61
<u> </u>	<u> </u>			NE % SW			POM NI	T OF K SEC
	ise Well Correctly of Outline Lease			ERRICKIROGR _				
Comingled OCATION EX	ception  ame  Creek	From	Oil Of To 5566	GAS ZONES	Name	F	rem	To
			CASIN	G & CEMENT				
	Con	ing Set	CASIN	Cog. Test		Ceme		
Size	Wgt.	Grade	Foot	Psi	Sax	Fillup		Тор
9 5/8	25.4	H-40	40	No test	60		Su	rface
	32.3	H-40	40					
7	23	J-55	1490	800	600		Su	rface
4 1/2	9.50	J-55	5735	1800	250	953	4	782
PBTD 5	5670 Baker	Tension	PKR at	5525.33	TOTAL	 	713	

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

MATION Des	ert Creek I+	$\overline{\mathcal{U}}$	, ,
ING & SPACING	40 acre		<del>                                     </del>
r no. Cause	#C-3(B)		
CLASSIFICATION	Enhanced		
OSAL WELL, ENHANCED VERY, LP GAS STORAGE)	Recovery		
PERFORATED			
	5554-66		
	5618-24		
INTERVALS			
	12.19.66		
ACIDIZED?	5000 gal 28%		
	regular acid		
FRACTURE TREATED?	. No		
ite I, bbl./day	5.6.64	Injector <sub>5.6</sub> .	
Gravity			
is, Cu. Ft./day	GF	CF.	. CF
s-Oil Ratio Cu. Ft./Bbl.			
ater-Bbi./day	158		•
emping or Flowing	Pumping		í
CHOKE SIZE			í.
OW TUBING PRESSURE	2600		16
A record of the formation  o undersigned, being first ording to the records of the	duly swern upon eath, at	ate that this well record if my knowledge and be	is true, correct and comp lief.
ephone <u>307–237–37</u> 9		A.E. St d title of representative	uart, Area Ma
scribed and sworn before			SEP 22,8383
		/ Or	٠ ٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠
			Casper

LOCATION: NESW Sec 14- T413-RZ	46 56.64
FIELD: GDEATER ANE H	PRESENT STATUS: 5.6.64
RESERVOIR: Desert Creek I+I	PRESENT STATUS.
RKB 4705'	1 17 SUPPLIE CANAG: 958": 25.4#
GL 4697' 79'	SURFACE CASING: 95/8": 25.4# H-40; 32.3# H40;40'ex
_/9_ [:]	
<b>₹</b>	
	INTERMEDIATE CASING: 7" 23#
<u> </u>	
	PRODUCTION CASING: 41/2"9.5#
<i>∑</i>	PRODUCTION CASING! THE
1490'	
PERFORATIONS:	
5554-66	
56/8-24	1)
	1
	1)
<b>&gt;</b>	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PACKER: Baker Tension Phr.
\$1   1	@ 5523.33'
	PACKER: Baker Tension Pkr. @ 5523.33' Tubing: 2"@5525'
<b>,</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>}  </b>	1)
	1}
); 7	
5522' (CX	
\$523' (XX	
	5554- 5624'
	77
<u>[5</u> ]	
<b>ب</b> ے ا	-
<u> </u>	[3]
/	13
PBTD: 36/0-	<u> </u>
РВТD: <u>5670 '</u> ОТD: <u>57/3'</u>	
57/3	
	Phillips Petroleum Company
	<u>ン</u>

<b>~</b> .		N = 21			1		A - 2	4 - E					٠.													<u>.</u>
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<b>23</b> .			24	••••		•	1	•		•	20	•		•	1			•		⊕-	_	•				
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<b>.</b>		+	21	•		-	. ,	📵		•	21	•		•	·8	1		•	1	•		+		•		RATHERFORD UNIT
•		i					•		-⊕-		•		-		•		•	-+-	•		ė				•	SAN JUAN COUNTY, UTAN
								··			+-	•	•			•	•	**	•	•	<del></del>	•				RCT 3-83
35			34				_			+	•					,⊚			•	4						-vacer injector
							د	16	••••		•3	٠			-⊕-		•		•	•				•		# domestic vater
			ırı				n. 24	<del></del>				•		-+-	·	•					•					unit boundry

2. 31.1

Sec. 15

CL1-12A (REV. 1964).

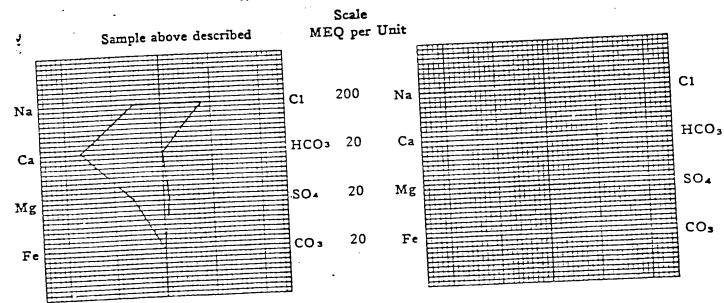
# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

## WATER ANALYSIS REPORT

· WA	TEK WINTE	J I D = -			1170676
OPERATOR Phillips Petroleum ( WELL NO Ratherford Unit FIELD San Juan STATE Utah	Company	DATE LOCATION FORMATION INTERVAL SAMPLE FROM_		Free wat	er knockout
REMARKS & CONCLUSIONS:					
Cations         mg/1           Sodium         30147           Potassium         429           Lithium         6865           Calcium         1738           Iron            Total Cations	meq/1 1311.38 10.98  342.56 124.86 	Hydroxide - Hydrogen sulfid		mg/1 1380 63000 0 151	meq/1 28.70 1776.60 0.00 2.48  1807.78
Total dissolved solids, mg/1  NaCl equivalent, mg/1	103633 104549 7.3	Specific resistar Observ Calcula	ed	0.087	ohm-meter

### WATER ANALYSIS PATTERN



CL1-12A (REV. 1964)

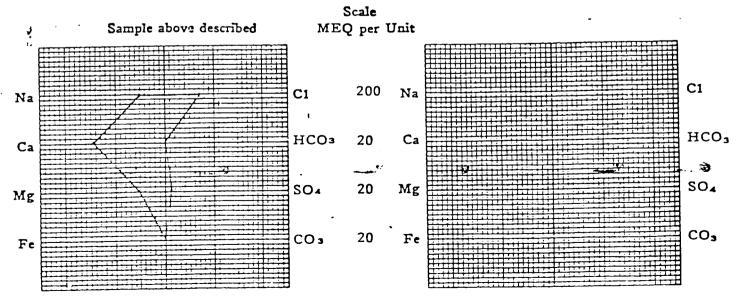
### CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

### WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum County San Juan  STATE Utah		DATE LOCATION FORMATION INTERVAL SAMPLE FROM			
REMARKS & CONCLUSIONS: Specif Oil an Alumin Iron (		g/1 /1		- · 2.5 - 0.90 - 0.3	
Cations         mg/1           Sodium         24574           Potzssium         396           Lithium         -           Calcium         5982           Magnesium         1419           Iron         -           Total Cations         -	meq/1 1068.99 10.14 - 298.50 116.64	Hydrogen sulfide	· • • • -		meq/1 24.75 1466.40 0.00 3.12
Total dissolved solids, mg/1 NaC1 equivalent, mg/1	85655 86344 7.4	Specific resistance Observed Calculate		- 0.095 - 0.086	_ ohm-meters

#### WATER ANALYSIS PATTERN



	JUREAU O' N	D MANAGEMEN	, ,			1
SUNDRY	NOTICES AN	D REPORTS	bork to a different reservois	N .	14-20-603-376	70.000 PA
			RECEIVEL	7.00	STANCE WEST NAME	
	water Inj	ection Well		SW	I-I-4192	
Phillips Petro	leum Componi		SEP 0 3 1985		M OR LAKES BAND	
1000000 OF OFB04700					therford Unit	
P. O. Box 2920	•		DIVISION OF OIL	F1	4W23	
pocation of wall (Report lo los also space 17 below.) At conface	cation circuity and in	secordance with an	State SALESTANIANG	10. 0	DLD AND FOOL, OR WI	DCAT .
2054' FSL, 2020'	EIII ·· (NE /OU)				eater, Aneth	
2034 F3L, 2020	FWL (NE/SW)				#1, 0, 1, 0, 00 M.E.	
		•		1	ec. 14-41S-R24	-
PSEMIT PO.	<u>t</u>	one (Show whether a		1	SPET OF PARIOR IS.	
43-037-16409		5', GL: 469.			n Juan	Utah
Che	ick Appropriate 8	lox to Indicate I	Nature of Notice, Repor	t, or Other D	ala	
ROTICS &	P (PERFERENCE TO:		1	AVDORQ <del>ČUNT</del> BAI	1002 GF;	
TROT WATER SECT-007	PCLL OR ALTER	CASING .	WATER SECT-007		BEPAREIRO WELL	
PRACTURE TREAT	MULTIPLE COM	P1.8TE	PRACTURE TREATMEN	•  _	ALFREING CARING	
SHOOT OR ACIDISS	ABANDON*	×	SECOTING OR ACIDISI	<b></b>	votribon mint.	$\vdash$
(Other)	(		(Other)	results of mult	ipie completica ca W port and Log form.)	<u></u>
			on and Proposed Op	t dates, includiz vertical depths	g estimated date of a for all markers and	Marting a 20045 per
			it details, and give pertinen slunn and measured and true c	t dates, includiz vertical depths	g ertimated date of a ler all markers and	tarting a 20045 per
			it details, and give pertinen slunn and measured and true c	t dates, includiz vertical depths	g ertimated date of a ler all markers and	tarting a
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			it details, and give pertinen slunn and measured and true c	t dates, includiz vertical depths	g ettimated date of a Bor all markers and	tarting a
See attachment fo	or Well Data,	Justification	it details, and give pertinen slunn and measured and true c	eration,	eviously diet	
A 10' x 8' x 6 Upon completio	or Well Data,	Justification	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completion 5-BLM, Farming	or Well Data,  ' fenced pit on of the work	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah O&G CC, 1- P. J. Adamse	or Well Data,  of the work  ton, NM  Salt Lake Ci	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah 0&G CC, 1- P. J. Adams 1- B. Conner,	or Well Data, of the work ton, NM Salt Lake Ci on 318 B-TRW	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah O&G CC, .1- P. J. Adams 1- B. Conner, 1- J. R. Weichl	or Well Data, of the work ton, NM Salt Lake Ci on 318 B-TRW	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah 0&G CC, 1- P. J. Adams 1- B. Conner,	or Well Data, of the work ton, NM Salt Lake Ci on 318 B-TRW	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah 0&G CC, 1- P. J. Adams 1- B. Conner, 1- J. R. Weichl 1- C. M. Anders	or Well Data,  of the work  ton, NM Salt Lake Cion 318 B-TRW brodt son	Justification will be constover, the pi	tructed on locatio	eration,	eviously diet	
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah 0&G CC, 1- P. J. Adams 1- B. Conner, 1- J. R. Weichl 1- C. M. Anders 1- File RC	or Well Data,  of the work  ton, NM Salt Lake Cion 318 B-TRW brodt son	Justification will be constover, the pi	tructed on locatio	eration, on in a production of the coverage of	eviously distred.	urbed
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah O&G CC, .1- P. J. Adams 1- B. Conner, 1- J. R. Weichl 1- C. M. Anders 1- File RC  bereby cartify that the force D. C. G.	or Well Data, of fenced pit on of the work ton, NM Salt Lake Ci on 318 B-TRW brodt son	will be constover, the pi	tructed on location will be dried as	eration, on in a production of the coverage of	eviously diet	urbed
A 10' x 8' x 6 Upon completio  5-BLM, Farming 2-Utah O&G CC, 1- P. J. Adams 1- B. Conner, 1- J. R. Weichl 1- C. M. Anders 1- File RC  bereby certify that the force  D. C. Gi This space for Federal or St	or Well Data, of fenced pit on of the work ton, NM Salt Lake Ci on 318 B-TRW brodt son	Justification will be constover, the pi ty, Utah	tructed on location will be dried as	eration, on in a product recovered	eviously distred.	26, 1

\*See Instructions on Reverse Side

### RATHERFORD UNIT WELL E14W23

#### Item 17

#### WELL DATA:

9-5/8" 25.4# + 32.3# csg @ 79' w/60 sx cmt.
7" 23# csg @ 1490' w/600 sx cmt.
4-1/2" 9.5# csg @ 5713' w/250 sx cmt.

Perfs @ 5554'-5566', 5618'-5624'

Formation Tops: Dechelly @ 2590'

Hermosa @ 4100'

Desert Creek @ 5545'

RECEIVED

TD: 5713'

**SEP** 0 3 1985

DIVISIUN OF OIL GAS & MINING

#### JUSTIFICATION:

The well does not have economical use as an injection well and has no recompletion or stimulation potential.

#### PROPOSED OPERATION:

- 1) Sqz perfs w/50 sx cmt. TOC @ 5450'.
- 2) Spot 25 sx cmt in 4-1/2" csg from 3950' to 4250' across Hermosa.
- 3) Perf 4-1/2" csg @ 2800'.
- 4) Pump 75 sx cmt to provide 300' balanced plug in annulus and 4-1/2" csg from 2800' to 2500' to isolate the Dechelly Fm.
- 5) Perf 4-1/2" csg @ 1550'.
- 6) Pump 40 sx cmt to provide 150' balanced plug in annulus and in 4-1/2" csg from 1550' to 1400' to provide a plug across 7" surf csg shoe.
- 7) Pump 25 sx cmt plug in annulus and 4-1/2" csg to provide 100' plug to surface.
- 8) Install P&A marker, unless surface owner requests otherwise, and rehab surface.
- 9) Will use mud-laden fluid between all cmt plugs.



# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

operator: Philip	ell No. Ostlory	for Und	E 14W2
County: Mr Man T 4/3 R 241	/		037-16409
<pre>lew Well Conversion Disposal We</pre>	11 Enhance	ed Recovery	Well X
		YES	<u>NO</u>
UIC Forms Completed			
Plat including Surface Owners. Le and wells of available record	aseholders,		
Schematic Diagram			
Fracture Information		~	
Pressure and Rate Control			
Adequate Geologic Information			
Éluid Source		Desers	
Analysis of Injection Fluid	Yes	No	TDS 8565
Analysis of Water in Formation to be injected into	Yes		TDS / 036 8
⋯ Known USDW in area	Mugst	· · ·	1550
Number of wells in area of revie	<del></del>	ccd. 2	P&A _/ Inj3
Aquifer Exemption	Yes	NA	ya e
. Mechanical Integrity Test	Yes	No	
<b>:</b>	Date	Тур	e
Comments: 100 4782			
PWI			
Reviewed by:			

### UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR:	Killip.	s Petro	oleur	m			
					RAtherford	./	
WELL #E	14W2	3	<del></del>	SEC/ <u>//</u>	TOWNSHIP 4/5	_RANGE_	24E
STATE FED. F.	EE DEP	тн	TYP	E WELL IN	JW MAX. INJ.	PRESS.	
SI 12-26. TEST DATE 6/17	80			٠		•	
ILOI DAIE	106	<del></del>		PRESSURE			
CASING STRING				READINGS			FUTURE
SURFACE	95/8		60		\$		<del></del>
INTERMEDIATE	7	1490	600				
PRODUCTION	4 1/2	5713	250				
						<del></del>	
TUBING	_2_	5525		Aker Pa	ker Model	A	
				PRESSURE			•
CASING STRING	SIZE	SET AT	CMT	READINGS	REMARKS	#2	FUTURE
SURFACE					<del>-</del>	<del></del>	
INTERMEDIATE							
PRODUCTION							
				•			<del></del>
TUBING				•			
CASING STRING	SIZE	SET AT	CMI	PRESSURE READINGS	REMARKS		FUIURE
SURFACE							
INTERMEDIATE							
PRODUCTION							
					4		
TUBING		<del> </del>		<del></del>			

	TMENT OF THE INT		60 Pt S.	14-20-603-3	AND SERIAL DO
SUNDRY NO	TICES AND REPORT	S ON WELLS	- 1	IP INDIAN, ALLOTTES	OG TRIBE HAM
	cation for Permit—" for or	ack proposals.)		Navajo	
OIL GAB OTESS	Water Injection We	:11	1"	SW-I-4192	MS
. HAMB OF OPERATOR			T.	FARM OR LEAGUE MAN	18
Phillips Petroleum Cor	npany			Ratherford	Unit
P.O. Box 2920, Casper	, WY 82602		•	E-14W23	
LOCATION OF WELL (Report location See also space 17 below.)	clearly and in accordance with	any State requirements.*	10	. FIELD AND POOL, O	
At surface			-11	Greater Ane	
2054' FSL, 2020' FWL	(NE/SW)		"	SASARA OF VERY	
		·		Sec. 14-41S	
1. PERMIT NO. 43-037-16409	KB: 4705, GL		12	San Juan	18. STATE Utah
Check A	Appropriate Box To Indica	is Nature of Nation Poss	<u>'</u>	- D-4-	<u> </u>
ROZECE OF INTE		ie indivie of inolice, kepo i	or Ome avacaguests		
TEST WATER SHUT-OFF	PCLL OR ALTER CASING	WATER SHUT-OFF		REPAIRING V	
PRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATME	rz	ALTERING CA	_
SHOOT OR ACIDIES	ABANDON®	SHOOTING OR ACIDIS	ING	ABANDONMEN	120
REPAIR WELL (Other)	CHANGE PLANE	(Other) (Nors: Repor	t_results of a	aultiple completion of Report and Leg for	se Well
DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct next to this work.)	PERATIONE (Clearly state all per- tionally drilled, give subsurface	linent details, and give pertiner locations and measured and tru	nt dates, incli ne vertical de	eding estimated date of all markers	e of starting as and gones per
conditions improve.		RECISION DIVISION	1986		
5-BLM, Farmington, NM		OIL. GAS & 1	MINING		
2-Utah O&G CC, Salt La	ake City, Utah				
1-P. J. Adamson 1-M. Williamson, 302	rrw				
1-J. R. Reno				•	
1-B. J. Murphy 1-File RC					
		•			
I hereby certify that the paregrap SIGNED	is true and correct TITLE	Area Manager		DATE 10-	13-86
D. C. Cill (This space for Federal or State of	lae veo)		÷		
	antific to	Λ.	CCEDTE	THE S	STATE
CONDITIONS OF APPROVAL, IF	ANY:	fil	o o = . , =	H DIVISION	
				S, AND MIN	
ederal approval of this action	M •C. f.	ions on Reverse Side DA	TE: 2/0	17-86	
s required before commencing	ig - Jee Instructi	RV	John	P. Bo	15

Operations.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

18.	1-M. Williams  I hereby certify that the foregoing is true and considered by Cill (This space for Federal or State office use)  APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	1370 G POB  OFFICE  TITLE Area Ma	AC	CEPTED BY THE STATE OF UTAMBDIVISION OF OIL, GAS, AND MINING	1987 -	
18.	I hereby certify that the foregoing is true and considered D. C. Gill	correct	•		- 1987 <del>-</del>	
	1-M. Williams	1370 G POB				
	1-M. Williams	1370 G POB		* .		
				*2		
	1-J. R. Reno 1-File - RC					
	2-Utah O & G CC, 1-P. J. Konkel	, Salt Lake City,	UT			
	5-BLM, Farmingto	n NM				
	1 00	d December 1, 198 y of Completed Op		ached for Well		
17.	DESCRIBE PROPOSED OR COMPLETED OPERATIONS (CI proposed work. If well is directionally drilled nent to this work.) *	iearly state all pertinent details, a l. give subsurface locations and r	and give pertinent dat neasured and true vert	es, including estimated date of starting an tical depths for all markers and sones perti-	<u>.</u> Į.	
	REPAIR WELL CHANGE PLA (Other)	NS (O	ther) (Note: Report resu Completion or Recor	its of multiple completion on Well apletion Report and Log form.)		
	FRACTURE TREAT MULTIPLE CO		OOTING OR ACIDIZING	ALTERING CASING X		
	TEST WATER SHUT-OFF PULL OR ALT	TER CASING WA	TER SHUT-OFF	REPAIRING WELL	•	
16.	Check Appropriate NOTICE OF INTENTION TO:	Box To Indicate Nature of		Other Data		
	43-037-16409 KB:		695'	San Juan Utah	_	
14.	. PERNIT NO.   15. ELEVA	ations (Show whether DF, RT, GR, etc	.)	Sec. 14-T41S-R24E 12. COURTY OR PARISE 18. STATE	, SLBM	
	At surface 2054 FSL, 2020	)' FWL (NE/SW)		Greater Aneth 11. SEC., T., R., M., OR SEK. AMD SURVEY OR AREA	-	
4.	P. O. Box 2920.  LOCATION OF WELL (Report location clearly and i See also space 17 below.)	Casper WY 82602 in accordance with any State requ	irements.*	#E14W23 10. FIELD AND FOOL, OR WILDCAT	_	
8.	Phillips Petrole	eum Company		Ratherford Unit 9. WELL NO.	with the second	
2.	MAMB OF OPERATOR	- Injection well		SW-I-4192 8. FARM OR LEASE NAME	-	
<del>1.</del>	OIL GAS G Water	r Injection Well		7. UNIT AGREEMENT NAME		
	SUNDRY NOTICES A  (Do not use this form for proposals to drill  Use "APPLICATION FOR			123106		
		ND MANAGEMENT	·	14-20-603-370 6. IF INDIAN, ALLOTTER OR TRIBE NAME	<del>-</del>	
		D STATES SUBMIT IN TRIPL 'YE OF THE INTERIOR verse side)		Budget Bureau No. 1004-0135 Expires August 31, 1085		
(N				Form approved.	•	

#### Ratherford Unit E14W23

#### Item 17

#### Well Data:

RKB: 4705' GL: 4695'

9-5/8", 25# casing @ 79' w/ 60 sx cement 7 ", 23# casing @ 1490' w/ 600 sx cement 4-1/2", 9.5# casing @ 5713' w/ est. top of cement @ 2580' No casing was recovered.

Perfs @ 5554-5566', 5618-5624'

Formation tops: Hermosa @ 4525'
Desert Creek @ 5545'

PBTD: 5670'

#### Completed Operations:

- 1. Tried to release packer, POOH w/ tubing, tubing/packer safety joint had unscrewed. Did not recover packer.
- RIH w/ bit and scraper, tag packer and pushed packer downhole 6' to 5527'.
- 3. RIH w/ cement retainer and set at 5459'.
- 4. Pressure tested surface lines to 3500 psi, pressure tested casing annulus to 500 psi.
- 5. Established injection rate of 3 BPM at 2000 psi with 10 bbl water through cement retainer.
- 6. Mixed and pumped 50 sx Class B cement to spot cement plug across Desert Creek perfs from 5459' to 5624'. Left 5 sx cement on top of retainer. Final squeeze pressure was 3000 psi at 1/4 BPM.
- 7. Stung out of retainer to spot 5 sx cement, changed out hole to 9.6 ppg mud.
- 8. POOH w/ stinger, RIH w/ tubing open-ended to 4631'.
- 9. Mixed and pumped 25 sx cement to spot balanced plug from 4631' to 4170' across Hermosa formation.
- 10. RIH w/ perforating gun, tag Hermosa plug at 4170'.
- 11. Raised gun to 1550', shot 5 shots/ft, 1 foot.

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- 12. POOH w/ gun. Established circulation down 4-1/2" casing and up 4-1/2"-7" annulus.
- 13. Circulated 280 sx cement to set balanced plug from 1550' to surface.
- 14. Cut 4-1/2 and 7" casings off 4' below GL. Welded 3/8" plate on 7" casing and installed inscribed permanent monument.
- 15. Filled pit and cleaned up location.

### DOWNHOLE SCHEMATIC

WELL: E14 W23

RKB: 4705'

GL: 4695'

